

CONTENTS VOLUME 74

Vol. 74 No. 1 1999

OTÁVIO DE OLIVEIRA COSTA FILHO and WAGNER SESSIN / The Extended Delaunay Method Applied to First Order Resonance	1-17
JAMES E. HOWARD / Stability of Relative Equilibria in Arbitrary Axisymmetric Gravitational and Magnetic Fields	19-57
SEPPO MIKKOLA and KIMMO INNANEN / Symplectic Tangent Map for Planetary Motions	59-67

Vol. 74 No. 2 1999

HIROAKI UMEHARA and KIYOTAKA TANIKAWA / Orbital Dis- tribution Arbitrarily Close to the Homothetic Equilateral Triple Collision in the Free-Fall Three-Body Problem with Equal Masses	69-94
LAURA STUMPF / Chaotic Behaviour in the Newton Iterative Func- tion Associated with Kepler's Equation	95-109
S. CHAMPENOIS and A. VIENNE / Chaos and Secondary Reso- nances in the Mimas-Tethys System	111-146

Vol. 74 No. 3 1999

IRINA TUPIKOVA, MICHAEL SOFFEL and SERGEI KLIONER / On the Classical Expansion of the Perturbing Function in Individual Orbital Elements	147-152
JUAN GETINO, PABLO MARTÍN and JOSÉ M. FARTO / Improved Nutation Series for the Non-Rigid Earth with a Precise Adjust- ment of Parameters with Nonlinear Dependence	153-162
E. PIÑA / A New Solution to the Lagrange's Case of the Three-Body Problem	163-174
ETIENNE DEPRIT and ANDRÉ DEPRIT / Poincaré's <i>Méthode Nou- velle</i> by Skew Compositon	175-197
FRANÇOIS PUEL / Potentials Having Two Orthogonal Families of Curves as Trajectories	199-210
S. GRIGORIADOU, G. BOZIS and B. ELMABSOUT / Solvable Cases of Szebehely's Equation	211-221



CH. TSITOURAS / A Tenth Order Symplectic Runge-Kutta-Nyström Method	223-230
JAROSLAV KLOKOČNÍK and CARL A. WAGNER / Combinations of Satellite Crossovers to Study Orbit and Residual Errors in Altimetry	231-242
F. ROOSBEEK / Diurnal and Subdiurnal Terms in RDAN97 Series	243-252
SŁAWOMIR BREITER / Lunisolar Apsidal Resonances at Low Satellite Orbits	253-274
SEPPO MIKKOLA / Efficient Symplectic Integration of Satellite Orbits	275-285
SEPPO MIKKOLA and KIYOTAKA TANIKAWA / Explicit Symplectic Algorithms for Time-Transformed Hamiltonians	287-295

